

# Humboldt State University Scientific Diving Program

Rich Alvarez - Diving Safety Officer

Steve Monk - Scuba Instructor



## Facilities

### New Pool in the Kinesiology and Athletics Complex

- 13 feet deep
- Larger Deep End
- We have fit 42 Divers doing a skills review

### New Compressor System:

- RIX 4VX 25 cfm Nitrox compressor
- 8 Air Storage banks
- 4 Nitrox Storage Banks
- 12 fill whips





# Program Support

## MSF Funds awarded by Dean of CPS

- \$6229 to pay for travel of student instructors
- \$2000 to pay Intermitent Hourly Workers
- DSO Salary

## Increased support on a Departmental Level for

- Travel of Faculty

## Instructor Trainer Workshop

- Steve Monk and Rich Alvarez at UCSC in March
- Assisting with CIMI ITC
  - Course Director Workshop for Rich Alvarez
  - ITC at HSU within the next year



# HSU Dive Program Activity Spring 2011

- 5 Scuba Classes: Beginning, Advanced, Underwater Photo, Rescue, DAN Oxygen Provider
- 11 Field Study Students (Divemaster Candidates)
- 101 total Divers

## PE 262 Beginning Scuba

- 23 Students
- 2 trips to Mendocino

## PE 362 Advanced Scuba

- 32 Students
- 1 trip to Mendocino
- 1 trip to Trinidad
- 1 trip to Catalina
  - USC's Marine Lab



## PE 382 Underwater Photo

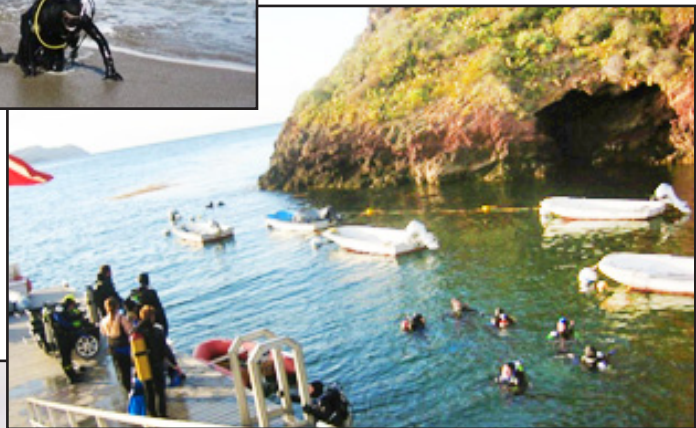
- 15 students
  - 1 trip to Mendocino

## PE 470 Rescue diver

- 8 Students
  - 1 trip to Trinidad

## 101 Total Divers

- 993 dives
- 33,210 minutes of bottom time
- 132fsw Deepest Dive





# Projects Supported by the Dive Program

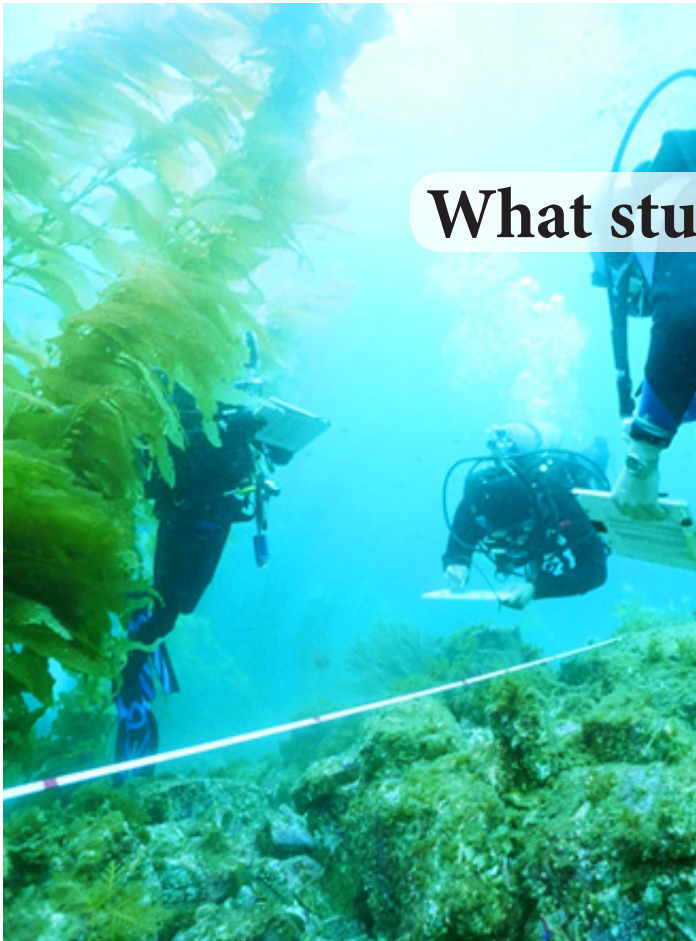
## Acoustic Doppler (tsunami tracker) in Humboldt Bay

### Graduate Research

- SMURF (Juvenile Rockfish survey) in Trinidad
- Abalone comparison of Trinidad and Mendocino

### Undergrad Research

- Archeological survey of Portuguese Beach
- Reefcheck California Surveys of Trinidad, Crescent City and Mendocino (MPA baseline data)



## What students do with the minor:

This year 15 students (so far) went on to get summer jobs, internships, or career positions in a wide array of diving related jobs. Here is a list of those jobs and some that our recent alums have:

- Nature Conservancy Coral Reef Restoration Diving internship in Virgin Islands
- Catalina Seacamp Scuba Dive Staff (6)
  - One of our Undergrads was promoted to Assistant Dive Director
- Director of Guided Discoveries and Dive Director visited HSU for interviews
- Monterey Bay Aquarium Assistant Diving Safety Officer (HSU Alum)
- Water Quality surveys in Belize with the Smithsonian Institute
- Channel Islands National Park (1 current student, 1 recent grad)
- Reefcheck California North-Central MPA monitoring coordinator
- AAUS Dauphin Island Marine Lab tech (2)
- US Navy Piniped research
  - Scripps University Northern Hawaiian Island Monitoring
- University of Hawaii Research vessel
- PISCO (1 undergrad, and 1 recent grad)
- Alaska Sea Life Center
- Various Dive stores as staff
  - Two Harbors Dive Center (2 students)

## **29 CFR Ch. XVII Subpart T 1910.401 – Labor (OSHA)**

(iv) Defined as scientific diving and which is under the direction and control of a diving program containing at least the following elements:

- A. Diving Safety Manual
- B. Diving Control Board

### **Appendix B to Subpart T - Guidelines for Scientific Diving**

1. diving control board : majority are active scientific divers - autonomous and absolute authority over program operations;
2. purpose of diving is advancement of science;
3. scientific diver is observer and data gatherer; and,
4. scientific divers use scientific expertise under water.

### **AAUS OM / AAUS Relationship**

- AAUS consensual standards are the AAUS OM scientific diving minimum.
- It is the responsibility of the AAUS OM to review and augment these standards to fit their program if they deem it necessary.
- These completed standards become the AAUS OM operational standards.
- The liability related to these standards falls upon the AAUS OM not AAUS.

### **Community Outreach**

- Beach cleanups organized by students in the HSU Scuba Club
- Classroom presentations to local elementary and junior high students
- Work with Northcoast Regional Stakeholder's group to provide input and advice on the MLPA process

